

SEQUENCE LISTING

<110> Friddle, Carl Johan
Hilbun, Erin

<120> Novel Human Proteases and Polynucleotides Encoding the Same

<130> LEX-0241-USA

<150> US 60/236,689

<151> 2000-09-29

<160> 7

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 966

<212> DNA

<213> homo sapiens

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gtcaccggca atgcggccct gacgctgccc aacttctgtg cctggcagaa gaagctgaac	900
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<210> 2

<211> 321

<212> PRT

<213> homo sapiens

<400> 2

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Gly Gly Ser Glu Pro Glu Arg Glu Val Val Val Pro Ile Arg Leu Asp

20 25 30

Pro Asp Ile Asn Gly Arg Arg Tyr Tyr Trp Arg Gly Pro Glu Asp Ser

35 40 45

Gly Asp Gln Gly Leu Ile Phe Gln Ile Thr Ala Phe Gln Glu Asp Phe

50 55 60

Tyr Leu His Leu Thr Pro Asp Ala Gln Phe Leu Ala Pro Ala Phe Ser

PROTEIN SEQUENCES

65	70	75	80													
Thr	Glu	His	Leu	Gly	Val	Pro	Leu	Gln	Gly	Leu	Thr	Gly	Gly	Ser	Ser	
			85				90							95		
Asp	Leu	Arg	Arg	Cys	Phe	Tyr	Ser	Gly	Asp	Val	Asn	Ala	Glu	Pro	Asp	
			100				105							110		
Ser	Phe	Ala	Ala	Val	Ser	Leu	Cys	Gly	Gly	Leu	Arg	Gly	Ala	Phe	Gly	
			115				120							125		
Tyr	Arg	Gly	Ala	Glu	Tyr	Val	Ile	Ser	Pro	Leu	Pro	Asn	Ala	Ser	Ala	
			130				135							140		
Pro	Ala	Ala	Gln	Arg	Asn	Ser	Gln	Gly	Ala	His	Leu	Leu	Gln	Arg	Arg	
			145				150				155				160	
Gly	Val	Pro	Gly	Gly	Pro	Ser	Gly	Asp	Pro	Thr	Ser	Arg	Cys	Gly	Val	
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Ala	Ser	Gly	Trp	Asn	Pro	Ala	Ile	Leu	Arg	Ala	Leu	Asp	Pro	Tyr	Lys	
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Pro	Arg	Arg	Ala	Gly	Phe	Gly	Glu	Ser	Arg	Ser	Arg	Arg	Arg	Ser	Gly	
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Arg	Ala	Lys	Arg	Phe	Val	Ser	Ile	Pro	Arg	Tyr	Val	Glu	Thr	Leu	Val	
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Val	Ala	Asp	Glu	Ser	Met	Val	Lys	Phe	His	Gly	Ala	Asp	Leu	Glu	His	
			225				230				235				240	
Tyr	Leu	Leu	Thr	Leu	Leu	Ala	Thr	Ala	Ala	Arg	Leu	Tyr	Arg	His	Pro	
			245				250							255		
Ser	Ile	Leu	Asn	Pro	Ile	Asn	Ile	Val	Val	Val	Lys	Val	Leu	Leu	Leu	
			260				265							270		
Arg	Asp	Arg	Asp	Ser	Gly	Pro	Lys	Val	Thr	Gly	Asn	Ala	Ala	Leu	Thr	
			275				280							285		
Leu	Arg	Asn	Phe	Cys	Ala	Trp	Gln	Lys	Lys	Leu	Asn	Lys	Val	Ser	Asp	
			290				295				300					
Lys	His	Pro	Glu	Tyr	Trp	Asp	Thr	Ala	Ile	Leu	Phe	Thr	Arg	Gln	Glu	
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<210> 3

<211> 2853

<212> DNA

<213> homo sapiens

<400> 3

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tgcttctatt	ctggggacgt	gaacgcccgg	ccggactcgt	tcgctgtgt	gaggctgtgc										360
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gagacgctgg	tggtcgcggc	cgagtcaatg	gtcaagttcc	acggcgccgg	cctggaaat										720
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cccatcaaca	tcgttgtgtt	caaggtgtgt	cttcttagag	atcgtaactc	cgggcccaag										840
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DNA sequence

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cccaagagaa gctgctctgt cattgaggac gatgggcttc catcagcctt caccactgcc	1080
cacgagctgg gccacgtgtt caacatgccc catgacaatg taaaaagtctg tgaggaggtg	1140
tttgggaagc tccgagccaa ccacatgatg tccccgaccc tcattccagat cgaccgtgcc	1200
aacccttgtt cagcctgcag tgctgccatc atcaccgact tcctggacag cgggcacgg	1260
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<210> 4

<211> 950

<212> PRT

<213> homo sapiens

<400> 4

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Gly Asp Gln Gly Leu Ile Phe Gln Ile Thr Ala Phe Gln Glu Asp Phe			
50	55	60	
Tyr Leu His Leu Thr Pro Asp Ala Gln Phe Leu Ala Pro Ala Phe Ser			
65	70	75	80
Thr Glu His Leu Gly Val Pro Leu Gln Gly Leu Thr Gly Gly Ser Ser			
85	90	95	
Asp Leu Arg Arg Cys Phe Tyr Ser Gly Asp Val Asn Ala Glu Pro Asp			
100	105	110	
Ser Phe Ala Ala Val Ser Leu Cys Gly Gly Leu Arg Gly Ala Phe Gly			
115	120	125	
Tyr Arg Gly Ala Glu Tyr Val Ile Ser Pro Leu Pro Asn Ala Ser Ala			

TOP SECRET

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Gly Val Pro Gly Gly Pro Ser Gly Asp Pro Thr Ser Arg Cys Gly Val		
165 170 175		
Ala Ser Gly Trp Asn Pro Ala Ile Leu Arg Ala Leu Asp Pro Tyr Lys		
180 185 190		
Pro Arg Arg Ala Gly Phe Gly Glu Ser Arg Ser Arg Arg Ser Gly		
195 200 205		
Arg Ala Lys Arg Phe Val Ser Ile Pro Arg Tyr Val Glu Thr Leu Val		
210 215 220		
Val Ala Asp Glu Ser Met Val Lys Phe His Gly Ala Asp Leu Glu His		
225 230 235 240		
Tyr Leu Leu Thr Leu Leu Ala Thr Ala Ala Arg Leu Tyr Arg His Pro		
245 250 255		
Ser Ile Leu Asn Pro Ile Asn Ile Val Val Val Lys Val Leu Leu Leu		
260 265 270		
Arg Asp Arg Asp Ser Gly Pro Lys Val Thr Gly Asn Ala Ala Leu Thr		
275 280 285		
Leu Arg Asn Phe Cys Ala Trp Gln Lys Lys Leu Asn Lys Val Ser Asp		
290 295 300		
Lys His Pro Glu Tyr Trp Asp Thr Ala Ile Leu Phe Thr Arg Gln Asp		
305 310 315 320		
Leu Cys Gly Ala Thr Thr Cys Asp Thr Leu Gly Met Ala Asp Val Gly		
325 330 335		
Thr Met Cys Asp Pro Lys Arg Ser Cys Ser Val Ile Glu Asp Asp Gly		
340 345 350		
Leu Pro Ser Ala Phe Thr Thr Ala His Glu Leu Gly His Val Phe Asn		
355 360 365		
Met Pro His Asp Asn Val Lys Val Cys Glu Glu Val Phe Gly Lys Leu		
370 375 380		
Arg Ala Asn His Met Met Ser Pro Thr Leu Ile Gln Ile Asp Arg Ala		
385 390 395 400		
Asn Pro Trp Ser Ala Cys Ser Ala Ala Ile Ile Thr Asp Phe Leu Asp		
405 410 415		
Ser Gly His Gly Asp Cys Leu Leu Asp Gln Pro Ser Lys Pro Ile Ser		
420 425 430		
Leu Pro Glu Asp Leu Pro Gly Ala Ser Tyr Thr Leu Ser Gln Gln Cys		
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Glu Leu Ala Phe Gly Val Gly Ser Lys Pro Cys Pro Tyr Met Gln Tyr		
450 455 460		
Cys Thr Lys Leu Trp Cys Thr Gly Lys Ala Lys Gly Gln Met Val Cys		
465 470 475 480		
Gln Thr Arg His Phe Pro Trp Ala Asp Gly Thr Ser Cys Gly Glu Gly		
485 490 495		
Lys Leu Cys Leu Lys Gly Ala Cys Val Glu Arg His Asn Leu Asn Lys		
500 505 510		
His Arg Val Asp Gly Ser Trp Ala Lys Trp Asp Pro Tyr Gly Pro Cys		
515 520 525		
Ser Arg Thr Cys Gly Gly Val Gln Leu Ala Arg Arg Gln Cys Thr		
530 535 540		
Asn Pro Thr Pro Ala Asn Gly Gly Lys Tyr Cys Glu Gly Val Arg Val		
545 550 555 560		
Lys Tyr Arg Ser Cys Asn Leu Glu Pro Cys Pro Ser Ser Ala Ser Gly		
565 570 575		
Lys Ser Phe Arg Glu Glu Gln Cys Glu Ala Phe Asn Gly Tyr Asn His		

05659700102470

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Ser Thr Asn Arg Leu Thr Leu Ala Val Ala Trp Val Pro Lys Tyr Ser			
595	600	605	
Gly Val Ser Pro Arg Asp Lys Cys Lys Leu Ile Cys Arg Ala Asn Gly			
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Thr Gly Tyr Phe Tyr Val Leu Ala Pro Lys Val Val Asp Gly Thr Leu			
625	630	635	640
Cys Ser Pro Asp Ser Thr Ser Val Cys Val Gln Gly Lys Cys Ile Lys			
645	650	655	
Ala Gly Cys Asp Gly Asn Leu Gly Ser Lys Lys Arg Phe Asp Lys Cys			
660	665	670	
Gly Val Cys Gly Gly Asp Asn Lys Ser Cys Lys Lys Val Thr Gly Leu			
675	680	685	
Phe Thr Lys Pro Met His Gly Tyr Asn Phe Val Val Ala Ile Pro Ala			
690	695	700	
Gly Ala Ser Ser Ile Asp Ile Arg Gln Arg Gly Tyr Lys Gly Leu Ile			
705	710	715	720
Gly Asp Asp Asn Tyr Leu Ala Leu Lys Asn Ser Gln Gly Lys Tyr Leu			
725	730	735	
Leu Asn Gly His Phe Val Val Ser Ala Val Glu Arg Asp Leu Val Val			
740	745	750	
Lys Gly Ser Leu Leu Arg Tyr Ser Gly Thr Gly Thr Ala Val Glu Ser			
755	760	765	
Leu Gln Ala Ser Arg Pro Ile Leu Glu Pro Leu Thr Val Glu Val Leu			
770	775	780	
Ser Val Gly Lys Met Thr Pro Pro Arg Val Arg Tyr Ser Phe Tyr Leu			
785	790	795	800
Pro Lys Glu Pro Arg Glu Asp Lys Ser Ser His Pro Lys Asp Pro Arg			
805	810	815	
Gly Pro Ser Val Leu His Asn Ser Val Leu Ser Leu Ser Asn Gln Val			
820	825	830	
Glu Gln Pro Asp Asp Arg Pro Pro Ala Arg Trp Val Ala Gly Ser Trp			
835	840	845	
Gly Pro Cys Ser Ala Ser Cys Gly Ser Gly Leu Gln Lys Arg Ala Val			
850	855	860	
Asp Cys Arg Gly Ser Ala Gly Gln Arg Thr Val Pro Ala Cys Asp Ala			
865	870	875	880
Ala His Arg Pro Val Glu Thr Gln Ala Cys Gly Glu Pro Cys Pro Thr			
885	890	895	
Trp Glu Leu Ser Ala Trp Ser Pro Cys Ser Lys Ser Cys Gly Arg Gly			
900	905	910	
Phe Gln Arg Arg Ser Leu Lys Cys Val Gly His Gly Arg Leu Leu			
915	920	925	
Ala Arg Asp Gln Cys Asn Leu His Arg Lys Pro Gln Glu Leu Asp Phe			
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Cys Val Leu Arg Pro Cys			
945	950		

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<211> 1104
<212> DNA
<213> homo sapiens

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60

120

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actgagcatc	tggcg	tcccagggg	ctcacccggg	gcttca	cctgcgacgc	300
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cccatcaaca	tcgtt	caaggt	cttcttagag	atcgta	cgggccc	840
gtcaccggca	atgcgg	gacgctgc	aacttctgt	cctgg	gaagctga	900
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ctgtgtggag	ccaccac	tgacacc	ggcatgg	atgtgg	tacatgt	1020
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<210> 6

<211> 367

<212> PRT

<213> homo sapiens

<400> 6

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Pro	Asp	Ile	Asn	Gly	Arg	Arg	Tyr	Tyr	Trp	Arg	Gly	Pro	Glu	Asp	Ser
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Gly	Asp	Gln	Gly	Leu	Ile	Phe	Gln	Ile	Thr	Ala	Phe	Gln	Glu	Asp	Phe
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Tyr	Leu	His	Leu	Thr	Pro	Asp	Ala	Gln	Phe	Leu	Ala	Pro	Ala	Phe	Ser
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Thr	Glu	His	Leu	Gly	Val	Pro	Leu	Gln	Gly	Leu	Thr	Gly	Gly	Ser	Ser
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Asp	Leu	Arg	Arg	Cys	Phe	Tyr	Ser	Gly	Asp	Val	Asn	Ala	Glu	Pro	Asp
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Ser	Phe	Ala	Ala	Val	Ser	Leu	Cys	Gly	Gly	Leu	Arg	Gly	Ala	Phe	Gly
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Tyr	Arg	Gly	Ala	Glu	Tyr	Val	Ile	Ser	Pro	Leu	Pro	Asn	Ala	Ser	Ala
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Pro	Ala	Ala	Gln	Arg	Asn	Ser	Gln	Gly	Ala	His	Leu	Leu	Gln	Arg	Arg
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Gly	Val	Pro	Gly	Gly	Pro	Ser	Gly	Asp	Pro	Thr	Ser	Arg	Cys	Gly	Val
								165				170			175
Ala	Ser	Gly	Trp	Asn	Pro	Ala	Ile	Leu	Arg	Ala	Leu	Asp	Pro	Tyr	Lys
								180				185			190
Pro	Arg	Arg	Ala	Gly	Phe	Gly	Glu	Ser	Arg	Ser	Arg	Arg	Arg	Ser	Gly
								195				200			205
Arg	Ala	Lys	Arg	Phe	Val	Ser	Ile	Pro	Arg	Tyr	Val	Glu	Thr	Leu	Val
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Val	Ala	Asp	Glu	Ser	Met	Val	Lys	Phe	His	Gly	Ala	Asp	Leu	Glu	His
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Tyr	Leu	Leu	Thr	Leu	Leu	Ala	Thr	Ala	Ala	Arg	Leu	Tyr	Arg	His	Pro
								245				250			255

Ser Ile Leu Asn Pro Ile Asn Ile Val Val Val Lys Val Leu Leu Leu
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 Arg Asp Arg Asp Ser Gly Pro Lys Val Thr Gly Asn Ala Ala Leu Thr
 275 280 285
 Leu Arg Asn Phe Cys Ala Trp Gln Lys Lys Leu Asn Lys Val Ser Asp
 290 295 300
 Lys His Pro Glu Tyr Trp Asp Thr Ala Ile Leu Phe Thr Arg Gln Asp
 305 310 315 320
 Leu Cys Gly Ala Thr Thr Cys Asp Thr Leu Gly Met Ala Asp Val Gly
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<212> DNA

<213> homo sapiens

<400> 7

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